

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

5488433

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January 30, 1996

Dual compression format digital video production system

REISSUE: July 6, 2001 - Reissue Application filed Ex. Gp.: 2614; Re. S.N. 09/900,784 June 18, 2002; August 28, 2001 - This Patent was reissued on Aug. 28, 2001 as Reissue Patent Re 37,342. Reissue Application filed Jan. 30, 1998 (O.G. Apr. 7, 1998) Ex. Gp.: 2602; Re. S.N. 09/016,777 April 7, 1998

APPL-NO: 08396574

FILED-DATE: March 1, 1995

GRANTED-DATE: January 30, 1996

CORE TERMS: video, editing, storage, digital, format, edit, implemented, media, recording, removable ...

ENGLISH-ABST:

An audio/video production system is implemented on a PC-based platform, preferably utilizing various forms of removable magnetic, optical, or magneto-optical storage media. Specially modified cameras or other sources provide digitally data-compressed audio and video program materials in two formats, a first format having a higher data-compression ratio and intended for use in off-line systems to develop edit decision lists, and a second format having a lower data-compression ratio and intended for use in on-line editing and to produce the final representations of the programs. Off-line editing decisions may thus be developed on a PC using removable storage media, and final representations of the programs may be produced on-line in accordance with stationary-head or rotary-head digital-tape-based formats, such as DAT, 6-mm or 8-mm tapes. In an alternative embodiment, automatic and unattended editing, or extended program playback of more than 40 hours duration of digital video, is

**LEXIS-NEXIS**  
**Library: PATENT**  
**File: ALL**

5,488,433 OR 5488433

**LEXIS-NEXIS**  
**Library: PATENT**  
**File: CASES**

Your search request has found no CASES.

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To enter a new search request, type it and press the ENTER key.

What you enter will be Search Level 1.

For further explanation, press the H key (for HELP) and then the ENTER key.

5,488,433 OR 5488433

**LEXIS-NEXIS**  
**Library: NEWS**  
**File: CURNWS**

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To enter a new search request, type it and press the ENTER key.

What you enter will be Search Level 1.

For further explanation, press the H key (for HELP) and then the ENTER key.

?s pn=us 5488433  
S9 1 PN=US 5488433  
?t 9/39/1

9/39/1

DIALOG(R)File 345:Inpadoc/Fam.& Legal Stat  
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14707589

Basic Patent (No,Kind,Date): CA 2161112 AA 19941027 <No. of Patents: 025>

Patent Family:

Patent No	Kind	Date	Applic No	Kind	Date	
CA 2161112	AA	19941027	CA 2161112	A	19940421	(BASIC)
CA 2213973	AA	19960906	CA 2213973	A	19960301	
CA 2215741	AA	19961010	CA 2215741	A	19960404	
CA 2243859	AA	19970731	CA 2243859	A	19960123	
DE 69621782	C0	20020718	DE 69621782	A	19960301	
EP 812509	A1	19971217	EP 96908588	A	19960301	
EP 819358	A1	19980121	EP 96910747	A	19960404	
EP 997039	A1	20000503	EP 96904562	A	19960123	
EP 812509	A4	19990818	EP 96908588	A	19960301	
EP 819358	A4	20000126	EP 96910747	A	19960404	
EP 997039	A4	20000503	EP 96904562	A	19960123	
EP 812509	B1	20020612	EP 96908588	A	19960301	
JP 8509337	T2	19961001	JP 94523574	A	19940421	
JP 11507184	T2	19990622	JP 96526411	A	19960301	
JP 11509996	T2	19990831	JP 96530475	A	19960404	
JP 2001501781	T2	20010206	JP 97526804	A	19960123	
US 5450140	A	19950912	US 50861	A	19930421	
US 5488433	A	19960130	US 396574	A	19950301	
US 5537157	A	19960716	US 298104	A	19940830	
US 5625410	A	19970429	US 418823	A	19950407	
US 37342	E1	20010828	US 16777	A	19980130	
WO 9424813	A1	19941027	WO 94US4383	A	19940421	
WO 9627263	A1	19960906	WO 96US2779	A	19960301	
WO 9631984	A1	19961010	WO 96US4652	A	19960404	
WO 9727704	A1	19970731	WO 96US1501	A	19960123	

Priority Data (No,Kind,Date):

US 50861 A 19930421  
WO 96US1501 W 19960123  
US 396574 A 19950301  
US 418823 A 19950407  
CA 2243859 A 19960123  
WO 96US2779 W 19960301  
WO 96US4652 W 19960404  
US 298104 A 19940830  
WO 94US4383 W 19940421  
WO 96US1501 A 19960123  
US 298104 A2 19940830  
US 50861 A2 19930421  
US 16777 A 19980130  
US 396574 A5 19950301

PATENT FAMILY:

CANADA (CA)

Patent (No,Kind,Date): CA 2161112 AA 19941027

MULTIMEDIA VIDEO PRODUCTION SYSTEM (English; French)

Patent Assignee: WASHINO KINYA (US)

Author (Inventor): WASHINO KINYA (US)

Priority (No,Kind,Date): US 50861 A 19930421; WO 96US1501 W 19960123

Applic (No,Kind,Date): CA 2161112 A 19940421

Derwent WPI Acc No: \* G 94-342223; G 96-341690

Language of Document: English

Patent (No,Kind,Date): CA 2213973 AA 19960906

DUAL COMPRESSION FORMAT DIGITAL VIDEO PRODUCTION SYSTEM (English; French)

Patent Assignee: WASHINO KINYA (US)

Author (Inventor): WASHINO KINYA (US); SCHWAB BARRY (US)  
 Priority (No,Kind,Date): US 396574 A 19950301  
 Applic (No,Kind,Date): CA 2213973 A 19960301  
 IPC: \* H04N-005/262; H04N-005/77  
 Language of Document: English  
 Patent (No,Kind,Date): CA 2215741 AA 19961010  
 VIDEO MONITORING AND CONFERENCING SYSTEM (English; French)  
 Patent Assignee: WASHINO KINYA (US)  
 Author (Inventor): WASHINO KINYA (US); SCHWAB BARRY H (US)  
 Priority (No,Kind,Date): US 418823 A 19950407  
 Applic (No,Kind,Date): CA 2215741 A 19960404  
 IPC: \* H04N-007/15  
 Derwent WPI Acc No: \* G 96-465322  
 Language of Document: English  
 Patent (No,Kind,Date): CA 2243859 AA 19970731  
 MULTI-FORMAT AUDIO/VIDEO PRODUCTION SYSTEM WITH FRAME-RATE CONVERSION  
 (English; French)  
 Patent Assignee: WASHINO KINYA (US)  
 Author (Inventor): SCHWAB BARRY H (US)  
 Priority (No,Kind,Date): CA 2243859 A 19960123  
 Applic (No,Kind,Date): CA 2243859 A 19960123  
 IPC: \* H04N-005/46; H04N-007/015  
 Language of Document: English

#### CANADA (CA)

Legal Status (No,Type,Date,Code,Text):  
 CA 2161112 P 19951020 CA REFW CORRESPONDS TO PCT  
 APPLICATION (ENTSPRICHT PCT ANMELDUNG)  
 WO 9424813 P  
 CA 2213973 P 19970827 CA REFW CORRESPONDS TO PCT  
 APPLICATION (ENTSPRICHT PCT ANMELDUNG)  
 WO 9627263 P  
 CA 2215741 P 19970917 CA REFW CORRESPONDS TO PCT  
 APPLICATION (ENTSPRICHT PCT ANMELDUNG)  
 WO 9631984 P  
 CA 2243859 P 19980717 CA REFW CORRESPONDS TO PCT  
 APPLICATION (ENTSPRICHT PCT ANMELDUNG)  
 WO 9727704 P

#### GERMANY (DE)

Patent (No,Kind,Date): DE 69621782 C0 20020718  
 DIGITALVIDEO-PRODUKTIONSSYSTEM MIT DOPPELTER SPEICHERUNG DERSELBEN  
 VIDEODATEN EINSCHLIESSLICH ZUGEHÖRIGER ZEITMARKEN FUER  
 SCHNITTBEARBEITUNG AUF ENTSPRECHENDEN ZWEI WECHSELBAREN DATENTRAEGERN  
 UND MIT JEWEILS UNTERSCHIEDLICHEM KOMPRESSIONSGRAD (German)  
 Patent Assignee: WASHINO KINYA (US)  
 Author (Inventor): WASHINO KINYA (US); SCHWAB H (US)  
 Priority (No,Kind,Date): US 396574 A 19950301; WO 96US2779 W  
 19960301  
 Applic (No,Kind,Date): DE 69621782 A 19960301  
 IPC: \* H04N-005/76; G11B-027/031  
 Language of Document: German

#### GERMANY (DE)

Legal Status (No,Type,Date,Code,Text):  
 DE 69621782 P 20020718 DE REF CORRESPONDS TO (ENTSPRICHT)  
 EP 812509 P 20020718

#### EUROPEAN PATENT OFFICE (EP)

Patent (No,Kind,Date): EP 812509 A1 19971217  
 DUAL COMPRESSION FORMAT DIGITAL VIDEO PRODUCTION SYSTEM (English;  
 French; German)  
 Patent Assignee: WASHINO KINYA (US)  
 Author (Inventor): WASHINO KINYA (US); SCHWAB BARRY H (US)  
 Priority (No,Kind,Date): WO 96US2779 W 19960301; US 396574 A  
 19950301  
 Applic (No,Kind,Date): EP 96908588 A 19960301

Designated States: (National) DE; FR; GB; NL  
IPC: \* H04N-005/76  
Language of Document: English  
Patent (No,Kind,Date): EP 819358 A1 19980121  
VIDEO MONITORING AND CONFERENCING SYSTEM (English; French; German)  
Patent Assignee: WASHINO KINYA (US)  
Author (Inventor): WASHINO KINYA (US); SCHWAB BARRY H (US)  
Priority (No,Kind,Date): WO 96US4652 W 19960404; US 418823 A  
19950407  
Applic (No,Kind,Date): EP 96910747 A 19960404  
Designated States: (National) DE; FR; GB; NL  
IPC: \* H04N-007/18  
Derwent WPI Acc No: \* G 96-465322  
Language of Document: English  
Patent (No,Kind,Date): EP 997039 A1 20000503  
MULTI-FORMAT AUDIO/VIDEO PRODUCTION SYSTEM WITH FRAME-RATE CONVERSION  
(English; French; German)  
Patent Assignee: WASHINO KINYA (US)  
Author (Inventor): WASHINO KINYA (US); SCHWAB BARRY H (US)  
Priority (No,Kind,Date): WO 96US1501 W 19960123; US 298104 A  
19940830; US 50861 A 19930421  
Applic (No,Kind,Date): EP 96904562 A 19960123  
Designated States: (National) DE; FR; GB; NL  
IPC: \* H04N-007/01  
Derwent WPI Acc No: \* G 94-342223; G 96-341690  
Language of Document: English  
Patent (No,Kind,Date): EP 812509 A4 19990818  
DUAL COMPRESSION FORMAT DIGITAL VIDEO PRODUCTION SYSTEM (English;  
French; German)  
Patent Assignee: WASHINO KINYA (US)  
Author (Inventor): WASHINO KINYA (US); SCHWAB BARRY H (US)  
Priority (No,Kind,Date): WO 96US2779 W 19960301; US 396574 A  
19950301  
Applic (No,Kind,Date): EP 96908588 A 19960301  
Designated States: (National) DE; FR; GB; NL  
IPC: \* H04N-005/76  
Language of Document: English  
Patent (No,Kind,Date): EP 819358 A4 20000126  
VIDEO MONITORING AND CONFERENCING SYSTEM (English; French; German)  
Patent Assignee: WASHINO KINYA (US)  
Author (Inventor): WASHINO KINYA (US); SCHWAB BARRY H (US)  
Priority (No,Kind,Date): WO 96US4652 W 19960404; US 418823 A  
19950407  
Applic (No,Kind,Date): EP 96910747 A 19960404  
Designated States: (National) DE; FR; GB; NL  
IPC: \* H04N-007/18  
Derwent WPI Acc No: \* G 96-465322  
Language of Document: English  
Patent (No,Kind,Date): EP 997039 A4 20000503  
MULTI-FORMAT AUDIO/VIDEO PRODUCTION SYSTEM WITH FRAME-RATE CONVERSION  
(English; French; German)  
Patent Assignee: WASHINO KINYA (US)  
Author (Inventor): WASHINO KINYA (US); SCHWAB BARRY H (US)  
Priority (No,Kind,Date): WO 96US1501 W 19960123; US 298104 A  
19940830; US 50861 A 19930421  
Applic (No,Kind,Date): EP 96904562 A 19960123  
Designated States: (National) DE; FR; GB; NL  
IPC: \* H04N-007/01  
Derwent WPI Acc No: \* G 94-342223; G 96-341690  
Language of Document: English  
Patent (No,Kind,Date): EP 812509 B1 20020612  
DIGITAL VIDEO PRODUCTION SYSTEM STORING TWICE THE SAME VIDEO DATA ALONG  
WITH CORRELATED EDIT TIME CODE INFORMATION ON RESPECTIVE TWO  
REMOVABLE STORAGE MEDIA AT DIFFERENT RATE OF COMPRESSION (English;  
French; German)  
Patent Assignee: WASHINO KINYA (US)  
Author (Inventor): WASHINO KINYA (US); SCHWAB BARRY H (US)  
Priority (No,Kind,Date): WO 96US2779 W 19960301; US 396574 A

19950301  
 Applic (No,Kind,Date): EP 96908588 A 19960301  
 Designated States: (National) DE; FR; GB; NL  
 IPC: \* H04N-005/76; G11B-027/031  
 Language of Document: English

EUROPEAN PATENT OFFICE (EP)

Legal Status (No,Type,Date,Code,Text):

EP 812509	P	19950301 EP AA	PRIORITY (PATENT APPLICATION)
			(PRIORITAET (PATENTANMELDUNG))
EP 812509	P	19960301 EP AA	US 396574 A 19950301 PCT-APPLICATION
			(PCT-ANMELDUNG)
EP 812509	P	19960301 EP AE	WO 96US2779 W 19960301 EP-APPLICATION
			(EUROPAEISCHE ANMELDUNG)
EP 812509	P	19971217 EP AK	EP 96908588 A 19960301 DESIGNATED CONTRACTING STATES IN AN APPLICATION WITH SEARCH REPORT: (IN EINER ANMELDUNG BENANNT VERTRAGSSTAATEN)
EP 812509	P	19971217 EP A1	DE FR GB NL PUBLICATION OF APPLICATION WITH SEARCH REPORT (VEROEFFENTLICHUNG DER ANMELDUNG MIT RECHERCHENBERICHT)
EP 812509	P	19971217 EP 17P	REQUEST FOR EXAMINATION FILED (PRUEFUNGSANTRAG GESTELLT) 970828
EP 812509	P	19990818 EP AK	DESIGNATED CONTRACTING STATES MENTIONED IN A SUPPLEMENTARY SEARCH REPORT: (IN EINEM ERGAENZENDEN RECHERCHENBERICHT BENANNT VERTRAGSSTAATEN)
EP 812509	P	19990818 EP A4	DE FR GB NL SUPPLEMENTARY SEARCH REPORT (ERGAENZENDER RECHERCHENBERICHT) 19990702
EP 812509	P	19990818 EP RIC1	CLASSIFICATION (CORRECTION) (KLASSIFIKATION (KORR.))
EP 812509	P	20001102 EP RTI1	6H 04N 5/76 A, 6G 11B 27/031 B TITEL (CORRECTION) (TITEL (KORR.))
EP 812509	P	20010221 EP 17Q	DIGITAL VIDEO PRODUCTION SYSTEM STORING TWICE THE SAME VIDEO DATA ALONG WITH CORRELATED EDIT TIME CODE INFORMATION ON RESPECTIVE TWO REMOVABLE STORAGE MEDIA AT DIFFERENT RATE OF COMPRESSION FIRST EXAMINATION REPORT (ERSTER PRUEFUNGSBESCHIED) 20010105
EP 812509	P	20020605 EP RIN1	INVENTOR (CORRECTION) (ERFINDER (KORR.))
EP 812509	P	20020612 EP AK	WASHINO, KINYA ; SCHWAB, BARRY, H. DESIGNATED CONTRACTING STATES MENTIONED IN A PATENT SPECIFICATION: (IN EINER PATENTSCHRIFT ANGEFUEHRTE BENANNT VERTRAGSSTAATEN)
EP 812509	P	20020612 EP B1	DE FR GB NL PATENT SPECIFICATION (PATENTSCHRIFT)
EP 812509	P	20020718 EP REF	CORRESPONDS TO: (ENTSPRICHT)
EP 819358	P	19950407 EP AA	DE 69621782 P 20020718 PRIORITY (PATENT APPLICATION) (PRIORITAET (PATENTANMELDUNG))
EP 819358	P	19960404 EP AA	US 418823 A 19950407 PCT-APPLICATION



			(PCT-ANMELDUNG)	
			WO 96US4652 W	19960404
EP 819358	P	19960404	EP AE	EP-APPLICATION
			(EUROPAEISCHE ANMELDUNG)	
			EP 96910747 A	19960404
EP 819358	P	19980121	EP AK	DESIGNATED CONTRACTING
			STATES IN AN APPLICATION WITH SEARCH REPORT:	
			(IN EINER ANMELDUNG BENANNT VERTRAGSSTAATEN)	
			DE FR GB NL	
EP 819358	P	19980121	EP A1	PUBLICATION OF APPLICATION
			WITH SEARCH REPORT (VEROEFFENTLICHUNG DER	
			ANMELDUNG MIT RECHERCHENBERICHT)	
EP 819358	P	19980121	EP 17P	REQUEST FOR EXAMINATION
			FILED (PRUEFUNGSANTRAG GESTELLT)	
			970916	
EP 819358	P	20000126	EP AK	DESIGNATED CONTRACTING
			STATES MENTIONED IN A SUPPLEMENTARY SEARCH	
			REPORT: (IN EINEM ERGAENZENDEN	
			RECHERCHENBERICHT BENANNT VERTRAGSSTAATEN)	
			DE FR GB NL	
EP 819358	P	20000126	EP A4	SUPPLEMENTARY SEARCH REPORT
			(ERGAENZENDER RECHERCHENBERICHT)	
			19991215	
EP 819358	P	20000202	EP RIC1	CLASSIFICATION (CORRECTION)
			(KLASSIFIKATION (KORR.))	
			7H 04N 7/14 A, 7H 04N 5/232 B, 7G 08B 13/196	
			B, 7H 04N 7/15 B	
EP 997039	P	19930421	EP AA	PRIORITY (PATENT
			APPLICATION) (PRIORITAET (PATENTANMELDUNG))	
			US 50861 A	19930421
EP 997039	P	19940830	EP AA	PRIORITY (PATENT
			APPLICATION) (PRIORITAET (PATENTANMELDUNG))	
			US 298104 A	19940830
EP 997039	P	19960123	EP AA	PCT-APPLICATION
			(PCT-ANMELDUNG)	
			WO 96US1501 W	19960123
EP 997039	P	19960123	EP AE	EP-APPLICATION
			(EUROPAEISCHE ANMELDUNG)	
			EP 96904562 A	19960123
EP 997039	P	20000503	EP AK	DESIGNATED CONTRACTING
			STATES IN AN APPLICATION WITH SEARCH REPORT:	
			(IN EINER ANMELDUNG BENANNT VERTRAGSSTAATEN)	
			DE FR GB NL	
EP 997039	P	20000503	EP AK	DESIGNATED CONTRACTING
			STATES IN AN APPLICATION WITH SEARCH REPORT:	
			(IN EINER ANMELDUNG BENANNT VERTRAGSSTAATEN)	
			DE FR GB NL	
EP 997039	P	20000503	EP A1	PUBLICATION OF APPLICATION
			WITH SEARCH REPORT (VEROEFFENTLICHUNG DER	
			ANMELDUNG MIT RECHERCHENBERICHT)	
EP 997039	P	20000503	EP A4	SUPPLEMENTARY SEARCH REPORT
			(ERGAENZENDER RECHERCHENBERICHT)	
			19991014	
EP 997039	P	20000503	EP 17P	REQUEST FOR EXAMINATION
			FILED (PRUEFUNGSANTRAG GESTELLT)	
			19980729	

JAPAN (JP)

Patent (No,Kind,Date): JP 8509337 T2 19961001

Priority (No,Kind,Date): WO 94US4383 W 19940421; US 50861 A  
19930421

Applic (No,Kind,Date): JP 94523574 A 19940421

IPC: \* H04N-005/232; G09G-005/00; H04N-007/18  
 Derwent WPI Acc No: \* G 94-342223; G 96-341690  
 Language of Document: Japanese  
 Patent (No,Kind,Date): JP 11507184 T2 19990622  
 Priority (No,Kind,Date): WO 96US2779 W 19960301; US 396574 A 19950301  
 Applic (No,Kind,Date): JP 96526411 A 19960301  
 IPC: \* H04N-005/91; G11B-027/032; H04N-005/92  
 Language of Document: Japanese  
 Patent (No,Kind,Date): JP 11509996 T2 19990831  
 Priority (No,Kind,Date): WO 96US4652 W 19960404; US 418823 A 19950407  
 Applic (No,Kind,Date): JP 96530475 A 19960404  
 IPC: \* H04N-007/18; H04N-007/15  
 Derwent WPI Acc No: \* G 96-465322  
 Language of Document: Japanese  
 Patent (No,Kind,Date): JP 2001501781 T2 20010206  
 Priority (No,Kind,Date): WO 96US1501 A 19960123  
 Applic (No,Kind,Date): JP 97526804 A 19960123  
 IPC: \* H04N-007/01  
 Derwent WPI Acc No: \* G 96-341690  
 Language of Document: Japanese

# UNITED STATES OF AMERICA (US)

Patent (No,Kind,Date): US 5450140 A 19950912  
 PERSONAL-COMPUTER-BASED VIDEO PRODUCTION SYSTEM (English)  
 Patent Assignee: WASHINO KINYA (US)  
 Author (Inventor): WASHINO KINYA (US)  
 Priority (No,Kind,Date): US 50861 A 19930421; WO 96US1501 W 19960123  
 Applic (No,Kind,Date): US 50861 A 19930421  
 National Class: \* 348722000; 348211000; 348212000; 348213000; 348552000  
 IPC: \* H04N-005/232  
 Derwent WPI Acc No: \* G 94-342223; G 96-341690  
 Language of Document: English  
 Patent (No,Kind,Date): US 5488433 A 19960130  
 DUAL COMPRESSION FORMAT DIGITAL VIDEO PRODUCTION SYSTEM (English)  
 Patent Assignee: WASHINO KINYA (US)  
 Author (Inventor): WASHINO KINYA (US); SCHWAB BARRY H (US)  
 Priority (No,Kind,Date): US 396574 A 19950301; US 298104 A2 19940830; US 50861 A2 19930421; WO 96US1501 W 19960123  
 Applic (No,Kind,Date): US 396574 A 19950301  
 Addnl Info: 5450140 Patented  
 National Class: \* 348722000; 360014100; 360014300; 358311000  
 IPC: \* H04N-005/76  
 Derwent WPI Acc No: \* G 94-342223; G 96-341690  
 Language of Document: English  
 Patent (No,Kind,Date): US 5537157 A 19960716  
 MULTI-FORMAT AUDIO/VIDEO PRODUCTION SYSTEM (English)  
 Patent Assignee: WASHINO KINYA (US)  
 Author (Inventor): WASHINO KINYA (US); SCHWAB BARRY H (US)  
 Priority (No,Kind,Date): US 298104 A 19940830; US 50861 A2 19930421; WO 96US1501 W 19960123  
 Applic (No,Kind,Date): US 298104 A 19940830  
 National Class: \* 348722000; 348911000; 348445000; 348554000; 348556000  
 IPC: \* H04N-005/46; H04N-007/01  
 Derwent WPI Acc No: \* G 94-342223; G 96-341690; G 96-341690  
 Language of Document: English  
 Patent (No,Kind,Date): US 5625410 A 19970429  
 VIDEO MONITORING AND CONFERENCING SYSTEM (English)  
 Patent Assignee: WASHINO KINYA (US)  
 Author (Inventor): WASHINO KINYA (US); SCHWAB BARRY H (US)  
 Priority (No,Kind,Date): US 418823 A 19950407; US 50861 A2 19930421; US 298104 A2 19940830; WO 96US1501 W 19960123  
 Applic (No,Kind,Date): US 418823 A 19950407  
 Addnl Info: 5450140 Patented; 5537157 Patented

National Class: \* 348154000; 348398000; 348552000; 386112000  
 IPC: \* H04N-007/18  
 Derwent WPI Acc No: \* G 94-342223; G 96-341690; G 96-465322  
 Language of Document: English  
 Patent (No,Kind,Date): US 37342 E1 20010828  
 DUAL FORMAT DIGITAL VIDEO PRODUCTION SYSTEM (English)  
 Patent Assignee: MULTI FORMAT INC (US)  
 Author (Inventor): WASHINO KINYA (US); SCHWAB BARRY H (US)  
 Priority (No,Kind,Date): US 16777 A 19980130; US 396574 A5  
 19950301; US 298104 A2 19940830; US 50861 A2 19930421  
 Applic (No,Kind,Date): US 16777 A 19980130  
 Addnl Info: 5537157 Patented; 5450140 Patented  
 National Class: \* 348722000; 386112000; 386117000; 386126000;  
 386054000; 386055000  
 IPC: \* H04N-005/76  
 Derwent WPI Acc No: \* G 94-342223; G 96-341690  
 Language of Document: English

UNITED STATES OF AMERICA (US)

Legal Status (No,Type,Date,Code,Text):

US 37342	E	19930421	US AA	PRIORITY (CONTINUATION IN PART)
			US 50861 A2	19930421
US 37342	E	19940830	US AA	PRIORITY (CONTINUATION IN PART)
			US 298104 A2	19940830
US 37342	E	19950301	US AA	PRIORITY
			US 396574 A5	19950301
US 37342	E	19980130	US AE	APPLICATION DATA (PATENT)
			(APPL. DATA (PATENT))	
			US 16777 A	19980130
US 37342	E	20010828	US E1	REISSUE (PRE-GRANT)
US 5450140	P	19930421	US AE	APPLICATION DATA (PATENT)
			(APPL. DATA (PATENT))	
			US 50861 A	19930421
US 5450140	P	19950912	US A	PATENT
US 5450140	P	19960123	US AA	PCT-APPLICATION (PCT-APPL.)
			WO 96US1501 W	19960123
US 5450140	P	19971103	US AS02	ASSIGNMENT OF ASSIGNOR'S INTEREST
			MULTI-FORMAT, INC. 80 HAMILTON AVE. DUMONT, NEW JERSEY 07628 ; WASHINO, KINYA : 19971029	
US 5488433	P	19930421	US AA	PRIORITY
			US 50861 A2	19930421
US 5488433	P	19940830	US AA	PRIORITY
			US 298104 A2	19940830
US 5488433	P	19950301	US AE	APPLICATION DATA (PATENT)
			(APPL. DATA (PATENT))	
			US 396574 A	19950301
US 5488433	P	19950327	US AS02	ASSIGNMENT OF ASSIGNOR'S INTEREST
			WASHINO, KINYA 80 HAMILTON AVE. DUMONT, NJ 07624 ; SCHWAB, BARRY H. : 19950301	
US 5488433	P	19960123	US AA	PCT-APPLICATION (PCT-APPL.)
			WO 96US1501 W	19960123
US 5488433	P	19960130	US A	PATENT
US 5488433	P	19960903	US CC	CERTIFICATE OF CORRECTION
US 5488433	P	19971020	US AS02	ASSIGNMENT OF ASSIGNOR'S INTEREST
			MULTI-FORMAT, INC. 80 HAMILTON AVE. DUMONT, NEW JERSEY 07624 ; WASHINO, KINYA : 19970930	
US 5488433	P	19980407	US RF	REISSUE APPLICATION FILED
			(REISSUE APPL. FILED)	
			980130	
US 5488433	P	20020618	US RF	REISSUE APPLICATION FILED
			(REISSUE APPL. FILED)	
			20010706	

US 5537157	P	19930421	US AA	PRIORITY
			US 50861 A2	19930421
US 5537157	P	19940830	US AE	APPLICATION DATA (PATENT)
			(APPL. DATA (PATENT))	
			US 298104 A	19940830
US 5537157	P	19950320	US AS02	ASSIGNMENT OF ASSIGNOR'S
			INTEREST	
			WASHINO, KINYA 80 HAMILTON AVE. DUMONT, NEW	
			JERSEY 07624 ; SCHWAB, BARRY H. : 19950301	
US 5537157	P	19960123	US AA	PCT-APPLICATION (PCT-APPL.)
			WO 96US1501 W	19960123
US 5537157	P	19960716	US A	PATENT
US 5537157	P	19961224	US CC	CERTIFICATE OF CORRECTION
US 5537157	P	19971103	US AS02	ASSIGNMENT OF ASSIGNOR'S
			INTEREST	
			MULTI-FORMAT, INC. 80 HAMILTON AVE. DUMONT,	
			NEW JERSEY 07628 ; WASHINO, KINYA : 19971029	
US 5537157	P	19980825	US RF	REISSUE APPLICATION FILED
			(REISSUE APPL. FILED)	
			980710	
US 5537157	P	20020430	US RF	REISSUE APPLICATION FILED
			(REISSUE APPL. FILED)	
			20011024	
US 5625410	P	19930421	US AA	PRIORITY
			US 50861 A2	19930421
US 5625410	P	19940830	US AA	PRIORITY
			US 298104 A2	19940830
US 5625410	P	19950407	US AE	APPLICATION DATA (PATENT)
			(APPL. DATA (PATENT))	
			US 418823 A	19950407
US 5625410	P	19960123	US AA	PCT-APPLICATION (PCT-APPL.)
			WO 96US1501 W	19960123
US 5625410	P	19970207	US AS02	ASSIGNMENT OF ASSIGNOR'S
			INTEREST	
			WASHINO, KINYA 80 HAMILTON DUMONT, NEW JERSEY	
			07624 ; SCWAB, BARRY H. : 19950406	
US 5625410	P	19970429	US A	PATENT
US 5625410	P	19971103	US AS02	ASSIGNMENT OF ASSIGNOR'S
			INTEREST	
			MULTI-FORMAT, INC. 80 HAMILTON AVE. DUMONT,	
			NEW JERSEY 07628 ; WASHINO, KINYA : 19971029	
US 5625410	P	19990615	US RF	REISSUE APPLICATION FILED
			(REISSUE APPL. FILED)	
			19990428	

WORLD INTELLECTUAL PROPERTY ORGANIZATION, PCT (WO)

Patent (No,Kind,Date): WO 9424813 A1 19941027

MULTIMEDIA VIDEO PRODUCTION SYSTEM (English)

Patent Assignee: WASHINO KINYA (US)

Author (Inventor): WASHINO KINYA (US)

Priority (No,Kind,Date): US 50861 A 19930421

Applic (No,Kind,Date): WO 94US4383 A 19940421

Designated States: (National) CA; JP (Regional) AT; BE; CH; DE; DK;

ES; FR; GB; GR; IE; IT; LU; MC; NL; PT; SE

Filing Details: WO 130000 With international search report; Before expiration of time limit for amending the claims and to be republished in the event of the receipt of the amendments

IPC: \* H04N-005/222; H04N-005/232; H04N-005/14; H04N-007/10; H04N-007/18; H04N-007/14

Derwent WPI Acc No: \* G 94-342223; G 96-341690; G 94-342223

Language of Document: English

Patent (No,Kind,Date): WO 9627263 A1 19960906

DUAL COMPRESSION FORMAT DIGITAL VIDEO PRODUCTION SYSTEM (English)

Patent Assignee: WASHINO KINYA (US)

Author (Inventor): WASHINO KINYA (US); SCHWAB BARRY H

Priority (No,Kind,Date): US 396574 A 19950301

Applic (No,Kind,Date): WO 96US2779 A 19960301  
 Designated States: (National) CA; JP (Regional) AT; BE; CH; DE; DK;  
 ES; FI; FR; GB; GR; IE; IT; LU; MC; NL; PT; SE  
 Filing Details: WO 130000 With international search report; Before  
 expiration of time limit for amending the claims and to be  
 republished in the event of the receipt of the amendments  
 IPC: \* H04N-005/76  
 Language of Document: English  
 Patent (No,Kind,Date): WO 9631984 A1 19961010  
 VIDEO MONITORING AND CONFERENCING SYSTEM (English)  
 Patent Assignee: WASHINO KINYA (US)  
 Author (Inventor): WASHINO KINYA (US); SCHWAB BARRY H  
 Priority (No,Kind,Date): US 418823 A 19950407  
 Applic (No,Kind,Date): WO 96US4652 A 19960404  
 Designated States: (National) CA; JP (Regional) AT; BE; CH; DE; DK;  
 ES; FI; FR; GB; GR; IE; IT; LU; MC; NL; PT; SE  
 Filing Details: WO 100000 With international search report  
 IPC: \* H04N-007/18  
 Derwent WPI Acc No: \* G 96-465322; G 96-465322  
 Language of Document: English  
 Patent (No,Kind,Date): WO 9727704 A1 19970731  
 MULTI-FORMAT AUDIO/VIDEO PRODUCTION SYSTEM WITH FRAME-RATE CONVERSION  
 (English)  
 Patent Assignee: WASHINO KINYA (US)  
 Author (Inventor): WASHINO KINYA (US); SCHWAB BARRY H  
 Priority (No,Kind,Date): WO 96US1501 A 19960123; US 298104 A  
 19940830; US 50861 A 19930421  
 Applic (No,Kind,Date): WO 96US1501 A 19960123  
 Designated States: (National) CA; JP (Regional) AT; BE; CH; DE; DK;  
 ES; FR; GB; GR; IE; IT; LU; MC; NL; PT; SE  
 Filing Details: WO 100000 With international search report  
 IPC: \* H04N-007/01  
 Derwent WPI Acc No: \* G 94-342223; G 96-341690  
 Language of Document: English

WORLD INTELLECTUAL PROPERTY ORGANIZATION, PCT (WO)

Legal Status (No,Type,Date,Code,Text):

WO 9424813	P	19930421	WO AA	PRIORITY (PATENT)
			US 50861 A	19930421
WO 9424813	P	19940421	WO AE	APPLICATION DATA (APPL. DATA)
			WO 94US4383 A	19940421
WO 9424813	P	19941027	WO AK	DESIGNATED STATES CITED IN A PUBLISHED APPLICATION WITH SEARCH REPORT (DESIGNATED STATES CITED IN A PUBLISHED APPL. WITH SEARCH REPORT)
			CA JP	
WO 9424813	P	19941027	WO AL	DESIGNATED COUNTRIES FOR REGIONAL PATENTS CITED IN A PUBLISHED APPLICATION WITH SEARCH REPORT (DESIGNATED COUNTRIES FOR REGIONAL PATENTS CITED IN A PUBLISHED APPL. WITH SEARCH REPORT)
			AT BE CH DE DK ES FR GB GR IE IT LU MC NL PT SE	
WO 9424813	P	19941027	WO A1	PUBLICATION OF THE INTERNATIONAL APPLICATION WITH THE INTERNATIONAL SEARCH REPORT (PUB. OF THE INTERNATIONAL APPL. WITH THE INTERNATIONAL SEARCH REPORT)
WO 9424813	P	19941208	WO B	LATER PUBLICATION OF AMENDED CLAIMS (LATER PUB. OF AMENDED CLAIMS)
WO 9424813	P	19950118	WO 121	EP: PCT APP. ART. 158 (1) (EP: PCT ANM. ART. 158 (1))
WO 9424813	P	19950223	WO DFPE	REQUEST FOR PRELIMINARY EXAMINATION FILED PRIOR TO EXPIRATION OF 19TH MONTH FROM PRIORITY DATE
WO 9424813	P	19951020	WO ENP	ENTRY INTO THE NATIONAL PHASE IN:

		CA 2161112	AA	
WO 9424813	P	19960828	WO 122	EP: PCT APP. NOT ENT. EUROP. PHASE (EP: PCT ANM. NICHT IN EUROP. PHASE EING.)
WO 9627263	P	19950301	WO AA	PRIORITY (PATENT)
		US 396574	A	19950301
WO 9627263	P	19960301	WO AE	APPLICATION DATA (APPL. DATA)
		WO 96US2779	A	19960301
WO 9627263	P	19960906	WO AK	DESIGNATED STATES CITED IN A PUBLISHED APPLICATION WITH SEARCH REPORT (DESIGNATED STATES CITED IN A PUBLISHED APPL. WITH SEARCH REPORT)
		CA JP		
WO 9627263	P	19960906	WO AL	DESIGNATED COUNTRIES FOR REGIONAL PATENTS CITED IN A PUBLISHED APPLICATION WITH SEARCH REPORT (DESIGNATED COUNTRIES FOR REGIONAL PATENTS CITED IN A PUBLISHED APPL. WITH SEARCH REPORT)
		AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL PT SE		
WO 9627263	P	19960906	WO A1	PUBLICATION OF THE INTERNATIONAL APPLICATION WITH THE INTERNATIONAL SEARCH REPORT (PUB. OF THE INTERNATIONAL APPL. WITH THE INTERNATIONAL SEARCH REPORT)
WO 9627263	P	19961127	WO 121	EP: PCT APP. ART. 158 (1) (EP: PCT ANM. ART. 158 (1))
WO 9627263	P	19961227	WO DFPE	REQUEST FOR PRELIMINARY EXAMINATION FILED PRIOR TO EXPIRATION OF 19TH MONTH FROM PRIORITY DATE
WO 9627263	P	19970827	WO ENP	ENTRY INTO THE NATIONAL PHASE IN:
		CA 2213973	AA	
WO 9627263	P	19970901	WO ENP	ENTRY INTO THE NATIONAL PHASE IN:
		JP 96526411	A	
WO 9631984	P	19950407	WO AA	PRIORITY (PATENT)
		US 418823	A	19950407
WO 9631984	P	19960404	WO AE	APPLICATION DATA (APPL. DATA)
		WO 96US4652	A	19960404
WO 9631984	P	19961010	WO AK	DESIGNATED STATES CITED IN A PUBLISHED APPLICATION WITH SEARCH REPORT (DESIGNATED STATES CITED IN A PUBLISHED APPL. WITH SEARCH REPORT)
		CA JP		
WO 9631984	P	19961010	WO AL	DESIGNATED COUNTRIES FOR REGIONAL PATENTS CITED IN A PUBLISHED APPLICATION WITH SEARCH REPORT (DESIGNATED COUNTRIES FOR REGIONAL PATENTS CITED IN A PUBLISHED APPL. WITH SEARCH REPORT)
		AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL PT SE		
WO 9631984	P	19961010	WO A1	PUBLICATION OF THE INTERNATIONAL APPLICATION WITH THE INTERNATIONAL SEARCH REPORT (PUB. OF THE INTERNATIONAL APPL. WITH THE INTERNATIONAL SEARCH REPORT)
WO 9631984	P	19970115	WO 121	EP: PCT APP. ART. 158 (1) (EP: PCT ANM. ART. 158 (1))
WO 9631984	P	19970123	WO DFPE	REQUEST FOR PRELIMINARY EXAMINATION FILED PRIOR TO EXPIRATION OF 19TH MONTH FROM PRIORITY DATE
WO 9631984	P	19970917	WO ENP	ENTRY INTO THE NATIONAL PHASE IN:
		CA 2215741	AA	
WO 9631984	P	19971006	WO ENP	ENTRY INTO THE NATIONAL

			PHASE IN:	
			JP 96530475	A
WO 9727704	P	19930421	WO AA	PRIORITY (PATENT)
			US 50861	A 19930421
WO 9727704	P	19940830	WO AA	PRIORITY (PATENT)
			US 298104	A 19940830
WO 9727704	P	19960123	WO AE	APPLICATION DATA (APPL. DATA)
			WO 96US1501	A 19960123
WO 9727704	P	19970731	WO AK	DESIGNATED STATES CITED IN A PUBLISHED APPLICATION WITH SEARCH REPORT (DESIGNATED STATES CITED IN A PUBLISHED APPL. WITH SEARCH REPORT)
			CA JP	
WO 9727704	P	19970731	WO AL	DESIGNATED COUNTRIES FOR REGIONAL PATENTS CITED IN A PUBLISHED APPLICATION WITH SEARCH REPORT (DESIGNATED COUNTRIES FOR REGIONAL PATENTS CITED IN A PUBLISHED APPL. WITH SEARCH REPORT)
			AT BE CH DE DK ES FR GB GR IE IT LU MC NL PT SE	
WO 9727704	P	19970731	WO A1	PUBLICATION OF THE INTERNATIONAL APPLICATION WITH THE INTERNATIONAL SEARCH REPORT (PUB. OF THE INTERNATIONAL APPL. WITH THE INTERNATIONAL SEARCH REPORT)
WO 9727704	P	19971022	WO 121	EP: PCT APP. ART. 158 (1) (EP: PCT ANM. ART. 158 (1))
WO 9727704	P	19971023	WO DFPE	REQUEST FOR PRELIMINARY EXAMINATION FILED PRIOR TO EXPIRATION OF 19TH MONTH FROM PRIORITY DATE
WO 9727704	P	19980717	WO ENP	ENTRY INTO THE NATIONAL PHASE IN:
			CA 2243859	AA
WO 9727704	P	19980723	WO ENP	ENTRY INTO THE NATIONAL PHASE IN:
			JP 97526804	A

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